

Report No.: EI/2010/20007 Issue Date: Mar. 11, 2010

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# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

# UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B CERTIFICATION REQUIREMENT

**OF** 

Product Name: CDMA TS004

Model Name: CR11-J01

FCC ID: WVS-CR11-J01

**Report No.:** EI/2010/20007

**Issue Date:** Mar. 11, 2010

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Toshiba Corporation, Mobile Communications

Co., Quality Management Division

1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo,

191-8555, Japan

Prepared by: SGS Taiwan Ltd.

**Electronics & Communication Laboratory** 

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan



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**及公司** t (886-2) 2299-3279

f (886-2) 2298-0488



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# VERIFICATION OF COMPLIANCE

**Applicant:** Toshiba Corporation, Mobile Communications Co.,

**Quality Management Division** 

1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555, Japan

**Product Name:** CDMA TS004

Model Name: CR11-J01

**FCC ID:** WVS-CR11-J01 **File Number:** EI/2010/20007

**Date of test:** Feb. 25, 2010 ~ Mar. 10, 2010

**Date of EUT Receive:** Feb. 25, 2010

# We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B, Class B. The test results of this report relate only to the tested sample identified in this report.

Test By:	Nick Lin	Date:	Mar. 11, 2010	
_	Nick Lin / Engineer			
Prepared By:	Alex Hsieh	Date:	Mar. 11, 2010	
	Alex Hsieh / Sr. Engineer			
Approved By:	Timent Su	Date:	Mar. 11, 2010	
	Vincent Su / Manager			

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 台灣檢驗科技股份有限公司
 t (886-2) 2299-3279
 f (886-2) 2298-0488
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# Version

Version No.	Date	Description
00	Mar. 11, 2010	Initial creation of document

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# 1. GENERAL INFORMATION

#### General:

General.		
Product Name:	CDMA TS00	04
Model Name:	CR11-J01	
FCC ID:	WVS-CR11	J01
Software Version:	N/A	
Hardware Version:	N/A	
Data Cable:	N/A	
Simple Hands-free (SHF)	N/A	
Dawar Supply	3.7 Vdc re-ch	nargeable battery or 5Vdc by AC/DC power adapter
Power Supply:	Adapter:	N/A

#### **GSM and CDMA:**

	Operating Frequency		Rated Power		
	CDMA2000 Cellular	TX:	824.70-848.31 MHz	24.5 dDm	
Cellular Phone Standards	CDMA2000 Cenular	RX:	869.70-893.31 MHz	24.5 dBm	
Frequency Range and Power:	GSM/GPRS 900, Class 10	880.2MHz – 914.8MHz		33 dBm	
	GSM/GPRS 1800, Class 10	1710	1710.2MHz-1784.8MHz		
	GSM/GPRS 1900, Class 10	1850.2MHz – 1909.8MHz		29 dBm	
IMEI:	9900000256742030				

**Final Amplifier Voltage and Current Information:** 

Test Mode	DC voltage (V)	DC current (mA)
CDMA2000 Cellular	5.0Vdc	980

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## Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V2.1 + EDR (GFSK + $\pi$ /4DQPSK + 8DPSK)
Channel number:	79 channels
Transmit Power:	3.45 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	Monopole Antenna / antenna gain: 1.55dBi

The EUT is compliance with Bluetooth 2.1 + EDR Standard.

FeliCa Receive Frequency:	13.56MHz
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The FeliCa only support receiving function.

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# 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: WVS-CR11-J01 filing to comply with Part15 Subpart B, class B of the FCC CFR 47 Rules.

# 1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

# 1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644

# 1.5 Special Accessories

Not available for this EUT intended for grant.

# 1.6 Equipment Modifications

Not available for this EUT intended for grant.

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# 2. System Test Configuration

# 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.2 EUT Exercise

The EUT was operated in the normal continuous transmitting.

#### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.4-2003.

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# 2.4 Limitation

#### **(1) Conducted Emission**

According to section 15.107(a), Conducted Emission Class B Limits is as following.

Frequency range		s B Limits B (uV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

#### Note

# (2) Radiated Emission

According to section 15.109(a), Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength $\mu V/m$	Distance (m)	Field strength at 3m dBµV/m
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Standard	Date	Description
EN55022	2006	Limits and methods of measurement of radio interference characteristics of information technology equipment.

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<sup>1.</sup> The lower limit shall apply at the transition frequencies

<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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#### EN55022 Limit:

	Limits
Frequency range	dBuV/m (10m)
MHz	Quasi-peak
30 to 230	30
230 to 1000	37

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

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# 2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (config 1,3)

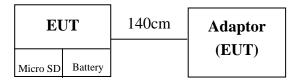


Fig. 2-2 Configuration of Tested System (config 2)

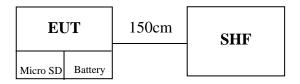


Fig. 2-3 Configuration of Tested System (config 4)

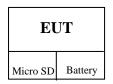
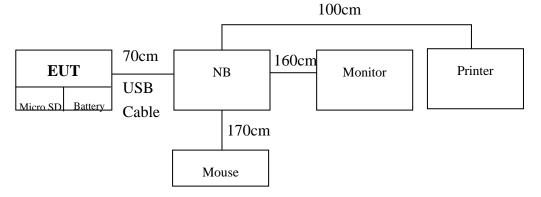


Fig. 2-4 Configuration of Tested System (config 5)



Model config refer to section 4 for detail

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Table 2-1 Support Equipment Used in Tested System

		Tuble 2	I Support Eq.	uipinent oscu i	n restea byste	J111	
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	FCC ID	Data Cable	<b>Power Cord</b>
1.	Micro SD	SanDisk	N/A	N/A	N/A	N/A	N/A
2.	Notebook	IBM	R61	L3A9050	N/A	N/A	Un-shielded
3.	Monitor	НР	HSTND-2F02	CND7122S7B	N/A	Shielded 160cm	Un-shielded
4.	Mouse	HP	MO42KOA	0307012110	N/A	Un-Shielded 170cm	N/A
5.	Printer	HP	DJ3820	CN34L181B1	N/A	Shielded 100cm	Un-shielded
6.	SHF	N/A	N/A	N/A	N/A	Un-shielded 150cm	N/A
7.	Adaptor	MITSUMI ELECTRIC	0203PQA	N/A	N/A	N/A	Un-shielded, 140cm
8.	USB Cable	N/A	N/A	N/A	N/A	Un-shielded 70cm	N/A

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台灣檢驗科技股份有限公司

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# 3. Summary of Test Results

FCC Rules	<b>Description Of Test</b>	Result
§15.107	Conducted Emission Class B	Compliant
§15.109	Radiated Emission Class B	Compliant

# 4. Description of test modes

The EUT was stayed in normal operation mode.

The data cable was connected to notebook PC and data transferred by program.

#### Test Plan:

CR11-J01	Config 1	Config 2	Config 3	Config 4	Config 5
Applicable standard (FCC)			Part 15B		
Accessories	UE	UE	UE	UE	UE
	+ Battery	+ Battery	+ Battery	+ Battery	+ Battery+
	+ AC	+ SHF	+ AC		Data cable
	Adaptor		Adaptor		
Description	Au	dio	Vic	leo	Data link
radiated emission	Disco AlZi Is	Disco AlZi Is	Camera	Camera	Data Pala
	Play TKHZ	Play 1KHz	REC	REC	Data link
conducted emission	Dia4KL	NI/A	Camera	NI/A	Data link
(AC Power)	Play 1KHz	N/A	REC	N/A	Data link

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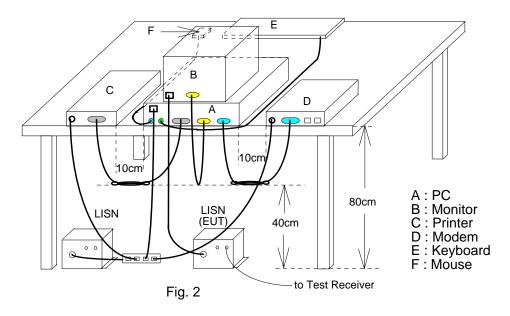
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# 5. Conducted Emissions Test

#### **5.1** Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

# **5.2** Test SET-UP (Block Diagram of Configuration)



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# 5.3 Measurement Equipment Used:

	Cor	nducted Emission T	est Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2009	09/14/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2009	11/27/2010

#### **5.4** Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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Humidity:

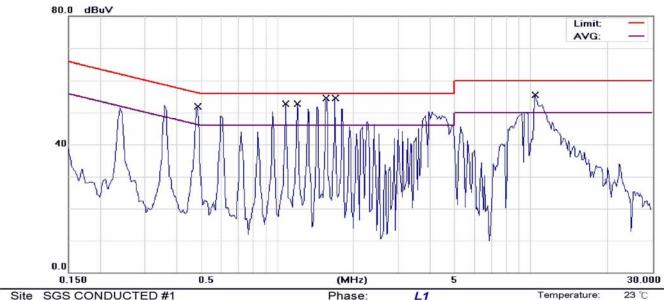
Air Pressure:

hpa

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# AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Mar. 08, 2010
		Test By:	Nick



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Molibe Phone

M/N: KD51

Note: Play 1KHz \_config1 IMEI: 990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4839	45.24	0.07	45.31	56.27	-10.96	QP	
2		0.4839	34.99	0.07	35.06	46.27	-11.21	AVG	
3		1.0830	45.44	0.09	45.53	56.00	-10.47	QP	
4		1.0830	34.34	0.09	34.43	46.00	-11.57	AVG	
5		1.1960	41.01	0.10	41.11	56.00	-14.89	QP	
6		1.1960	32.90	0.10	33.00	46.00	-13.00	AVG	
7		1.5653	47.33	0.11	47.44	56.00	-8.56	QP	
8		1.5653	33.00	0.11	33.11	46.00	-12.89	AVG	
9	*	1.6867	48.04	0.12	48.16	56.00	-7.84	QP	
10		1.6867	33.26	0.12	33.38	46.00	-12.62	AVG	
11		10.3436	45.35	0.43	45.78	60.00	-14.22	QP	
12		10.3436	26.29	0.43	26.72	50.00	-23.28	AVG	

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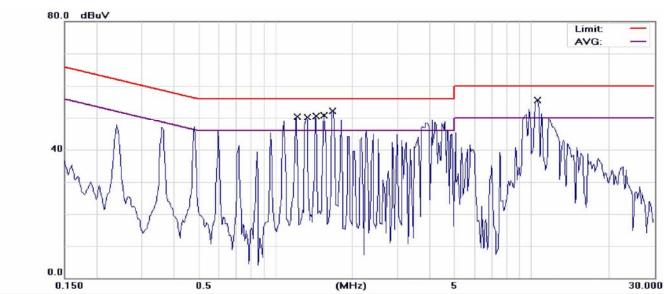
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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

台灣檢驗科技股份有限公司

EUT: Molibe Phone

M/N: KD51

Note: Play 1KHz \_config1 IMEI: 990000256742030

23 ℃ Phase: Temperature: AC 120V/60Hz Humidity: Power: Distance: Air Pressure: hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	1.2113	46.89	0.13	47.02	56.00	-8.98	QP	
2	1.2113	32.88	0.13	33.01	46.00	-12.99	AVG	
3	1.3251	45.99	0.13	46.12	56.00	-9.88	QP	
4	1.3251	32.25	0.13	32.38	46.00	-13.62	AVG	
5	1.4459	45.87	0.13	46.00	56.00	-10.00	QP	
6	1.4459	31.19	0.13	31.32	46.00	-14.68	AVG	
7	1.5639	44.95	0.14	45.09	56.00	-10.91	QP	
8	1.5639	25.48	0.14	25.62	46.00	-20.38	AVG	
9 *	1.6890	47.34	0.14	47.48	56.00	-8.52	QP	
10	1.6890	31.25	0.14	31.39	46.00	-14.61	AVG	
11	10.5016	46.77	0.45	47.22	60.00	-12.78	QP	
12	10.5016	21.28	0.45	21.73	50.00	-28.27	AVG	

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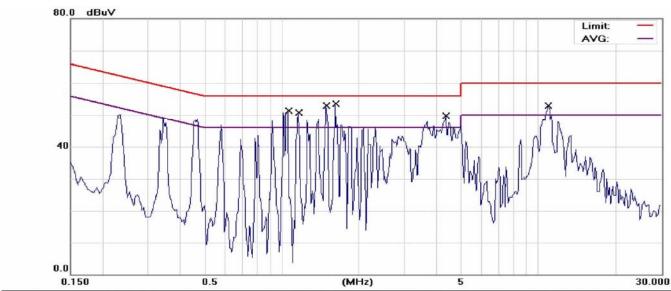


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# AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Mar. 08, 2010
		Test By:	Nick



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Molibe Phone

M/N: KD51

Note: Camera REC \_config3 IMEI: 990000256742030

Phase:	L1	Temperature:	23 ℃
Power:	AC 120V/60Hz	Humidity:	56 %
Distance	es:	Air Pressure:	hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	1.0577	35.24	0.09	35.33	56.00	-20.67	QP	
2	1.0577	19.29	0.09	19.38	46.00	-26.62	AVG	
3	1.1576	37.47	0.10	37.57	56.00	-18.43	QP	
4	1.1576	23.21	0.10	23.31	46.00	-22.69	AVG	
5	1.4863	38.85	0.11	38.96	56.00	-17.04	QP	
6	1.4863	23.38	0.11	23.49	46.00	-22.51	AVG	
7 *	1.6168	41.57	0.11	41.68	56.00	-14.32	QP	
8	1.6168	25.23	0.11	25.34	46.00	-20.66	AVG	
9	4.3638	37.70	0.16	37.86	56.00	-18.14	QP	
10	4.3638	18.68	0.16	18.84	46.00	-27.16	AVG	
11	10.9144	37.75	0.42	38.17	60.00	-21.83	QP	
12	10.9144	22.28	0.42	22.70	50.00	-27.30	AVG	

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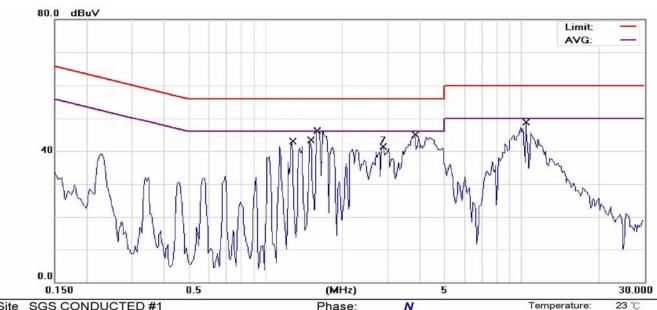
Humidity:

Air Pressure

56 %

hpa

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Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Molibe Phone

M/N: KD51

Note: Camera REC \_config3

IMEI: 990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		1.2677	38.61	0.13	38.74	56.00	-17.26	QP	
2		1.2677	25.68	0.13	25.81	46.00	-20.19	AVG	
3		1.4953	38.61	0.14	38.75	56.00	-17.25	QP	
4		1.4953	24.52	0.14	24.66	46.00	-21.34	AVG	
5	*	1.5869	41.83	0.14	41.97	56.00	-14.03	QP	
6		1.5869	22.66	0.14	22.80	46.00	-23.20	AVG	
7		2.8800	41.21	0.16	41.37	56.00	-14.63	peak	
8		3.8151	39.08	0.17	39.25	56.00	-16.75	QP	
9		3.8151	20.02	0.17	20.19	46.00	-25.81	AVG	
10		10.3978	42.04	0.45	42.49	60.00	-17.51	QP	
11		10.3978	28.07	0.45	28.52	50.00	-21.48	AVG	

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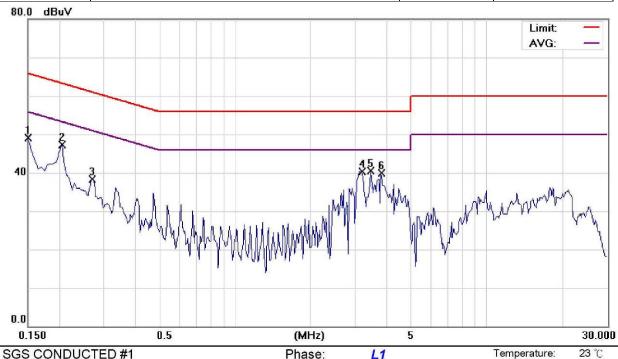


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# AC POWER LINE CONDUCTED EMISSION TEST DATA

**Operation Mode:** Config 5 Test Date: Mar. 08, 2010 Test By: Nick



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Mobile Phone

M/N: KD51

Note: Data link \_config5

IMEI: 990000256742030

No. Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	48.90	0.12	49.02	66.00	-16.98	peak	
2	0.2050	47.17	0.10	47.27	63.41	-16.14	peak	
3	0.2700	38.20	0.10	38.30	61.12	-22.82	peak	
4	3.2000	40.25	0.14	40.39	56.00	-15.61	peak	
5 *	3.4700	40.28	0.14	40.42	56.00	-15.58	peak	
6	3.8000	39.69	0.15	39.84	56.00	-16.16	peak	

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Humidity:

Air Pressure:

hpa



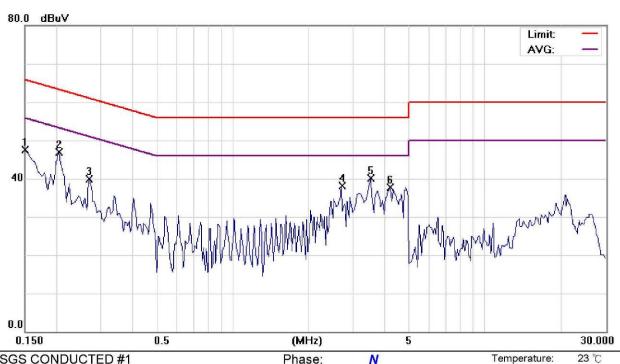
Report No.: EI/2010/20007 **Issue Date: Mar. 11, 2010** 

Humidity:

Air Pressure:

hpa

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Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Mobile Phone

M/N: KD51

Note: Data link \_config5

IMEI: 990000256742030

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	47.27	0.14	47.41	66.00	-18.59	peak	
2	0.2050	46.87	0.12	46.99	63.41	-16.42	peak	
3	0.2700	39.80	0.12	39.92	61.12	-21.20	peak	
4	2.7200	37.85	0.16	38.01	56.00	-17.99	peak	
5 *	3.5300	39.95	0.17	40.12	56.00	-15.88	peak	
6	4.2100	37.54	0.17	37.71	56.00	-18.29	peak	

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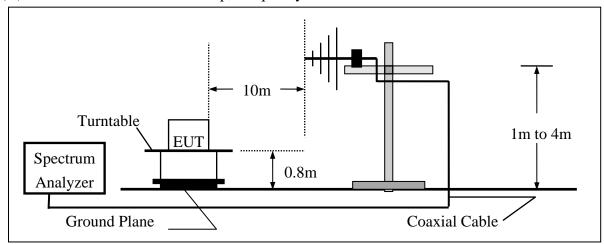
#### **Radiated Emission Test** 6.

# **6.1** Measurement Procedure

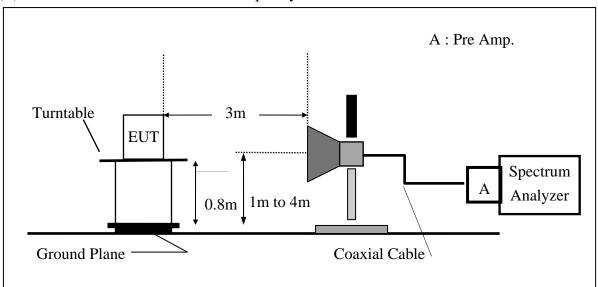
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- And also, each emission was to be maximized by changing the polarization of 3. receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

# **6.2** Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



# (B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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# **6.3** Measurement Equipment Used:

	10m (	Open Area Tes	t Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCI	100335	02/05/2010	02/04/2011
RF-Amplifier	Agilent	8447D	2944A09469	11/30/2010	11/29/2011
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	03/11/2010	03/02/2011
Turn Table	HD	DT420	420/542	N/A	N/A
Antenna Master	HD	MA 240	240/515	N/A	N/A
Controller	HD	HD 100	100/589	N/A	N/A
Low Loss Cable	N/A	OS RE Cable	N/A	11/30/2009	11/29/2010

		966 Chamber			
<b>EQUIPMENT</b>	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	09/15/2009	09/14/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/27/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011

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# 6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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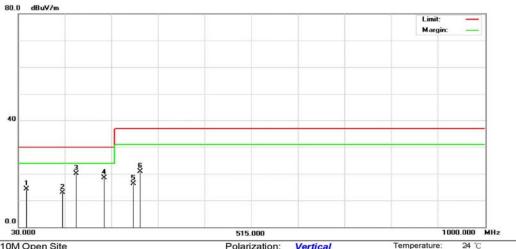
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Humidity: Air Pressure:

# 6.5 Measurement Result (below 1G)

Config 1 Test Date: Mar. 08, 2010 Test Mode:

Frequency Range: 30MHz-1GHz Test By: Nick



Polarization:

Power: DC3.7V

Distance: 10m

Vertical

Site: 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Play 1KHz\_config 1 IMEI:990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	αB	Detector	Comment
1		46.9750	37.53	-23.25	14.28	30.00	-15.72	QP	
2		122.1500	31.96	-19.02	12.94	30.00	-17.06	QР	
3	*	151.2500	35.59	-15.40	20.19	30.00	-9.81	QΡ	
4		209.4500	35.96	-17.47	18.49	30.00	-11.51	QР	
5		270.0750	31.86	-15.63	16.23	37.00	-20.77	QΡ	
6		284.6250	36.31	-15.48	20.83	37.00	-16.17	QР	

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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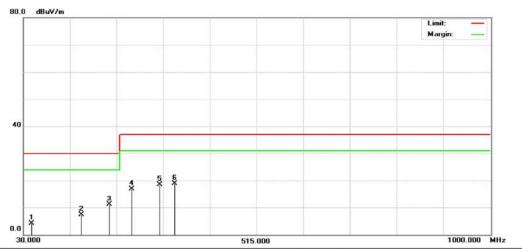


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Test Mode: Config 1 Test Date: Mar. 08, 2010

Frequency Range: 30MHz-1GHz Test By: Nick



Site : 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone M/N: KD51

Note: Play 1KHz\_config 1 IMEI: 990000256742030 Polarization: Horizontal
Power: DG3.7V
Distance: 10m

Temperature: 24 °C
Humidity: 58%
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dΒ	Detector	Comment	
1		46.9750	27.54	-23.52	4.02	30.00	-25.98	QΡ		
2	,	151.2500	30.44	-23.11	7.33	30.00	-22.67	QΡ		
3	2	209.4500	33.63	-22.59	11.04	30.00	-18.96	QΡ		
4	2	255.5250	38.40	-21.52	16.88	37.00	-20.12	QΡ		
5	;	313.7250	37.81	-19.40	18.41	37.00	-18.59	QΡ		
6	* :	345.2500	38.76	-19.95	18.81	37.00	-18.19	QР		

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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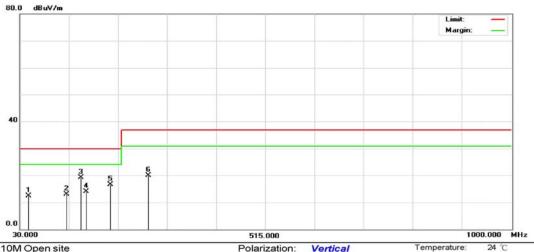
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Humidity:

Air Pressure:

Test Mode: Config 2 Test Date: Mar. 08, 2010

Frequency Range: 30MHz-1GHz Test By: Nick



DC3.7V

Site: 10M Open site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Play1KHz\_config2 IMEI:990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dВ	Detector	Comment	
1		46.9750	35.53	-23.25	12.28	30.00	-17.72	QP		
2		122.1500	31.96	-19.02	12.94	30.00	-17.06	QP		
3	*	151.2500	34.59	-15.40	19.19	30.00	-10.81	QP		
4		160.9500	29.40	-15.52	13.88	30.00	-16.12	QP		
5	:	209.4500	33.96	-17.47	16.49	30.00	-13.51	QP		
6	:	284.6250	35.31	-15.48	19.83	37.00	-17.17	QP		

Power:

Distance:

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Report No.: EI/2010/20007 **Issue Date: Mar. 11, 2010** 

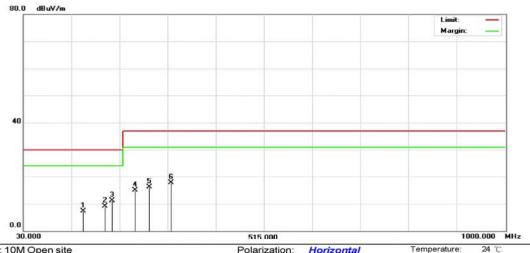
Page: 28 of 54

Humidity:

Air Pressure:

Test Mode: Config 2 Test Date: Mar. 08, 2010

Test By: Frequency Range: 30MHz-1GHz Nick



Site: 10M Open site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Play1KHz\_config2 IMEI:990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dΒ	Detector	Comment
1		151.2500	30.44	-23.11	7.33	30.00	-22.67	QР	
2		194.9000	32.05	-22.88	9.17	30.00	-20.83	QР	
3	*	209.4500	33.63	-22.59	11.04	30.00	-18.96	QP	
4		255.5250	36.40	-21.52	14.88	37.00	-22.12	QP	
5		284.6250	36.59	-20.57	16.02	37.00	-20.98	QΡ	
6		328.2750	37.22	-19.60	17.62	37.00	-19.38	QР	

Power:

Distance:

DC3.7V

10m

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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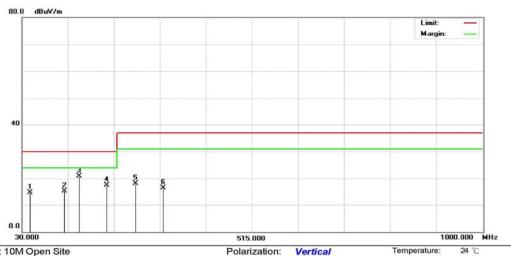
Humidity:

Air Pressure:

58%

Test Mode: Config 3 Test Date: Mar. 08, 2010

Frequency Range: 30MHz-1GHz Test By: Nick



Power:

Distance: 10m

DC3.7V

Site: 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

Reading

Level

dBuV

37.95

34.31

36.24

35.03

33.67

32.03

-15.58

16.45

37.00

EUT: Mobilephone

No. Mk.

M/N: KD51 Note: Camera REC \_config 3

Freq.

MHz

46.9750

119.7250

151.2500

209.4500

270.0750

328.2750

IMEI: 990000256742030

Factor	Measure- ment	Limit	Over			
dВ	dBuV/m	dBuV/m	dВ	Detector	Comment	
-23.25	14.70	30.00	-15.30	QΡ		
-19.07	15.24	30.00	-14.76	QP		
-15.40	20.84	30.00	-9.16	QP		
-17.47	17.56	30.00	-12.44	QP		
-15.63	18.04	37.00	-18.96	QP		

QΡ

# Remark:

(1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.

-20.55

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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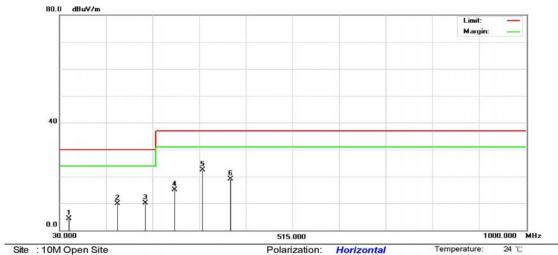
Humidity:

Air Pressure:

58%

Test Mode: Config 3 Test Date: Mar. 08, 2010

Test By: Frequency Range: 30MHz-1GHz Nick



Site: 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Camera REC \_config 3 IMEI: 990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dΒ	Detector	Comment
1		49.4000	28.32	-23.93	4.39	30.00	-25.61	QΡ	
2		151.2500	33.01	-23.11	9.90	30.00	-20.10	QΡ	
3		209.4500	32.61	-22.59	10.02	30.00	-19.98	QΡ	
4		270.0750	36.12	-20.99	15.13	37.00	-21.87	QР	
5	*	328.2750	42.01	-19.60	22.41	37.00	-14.59	QР	
6		386.4750	38.78	-19.69	19.09	37.00	-17.91	QΡ	

Power:

Distance: 10m

#### Remark:

(1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.

DC3.7V

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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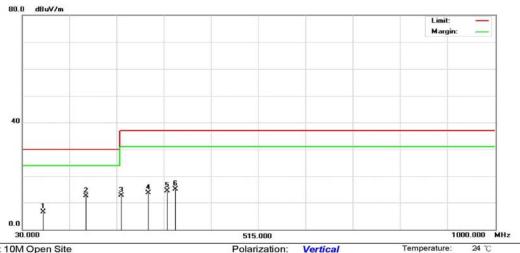
Page: 31 of 54

Humidity:

Air Pressure:

Test Mode: Config 4 Test Date: Mar. 08, 2010

Frequency Range: 30MHz-1GHz Test By: Nick



DC3.7V

Site : 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Camera REC \_config 4 IMEI: 990000256742030

No.	Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dВ	Detector	Comment
1		73.6500	27.08	-20.57	6.51	30.00	-23.49	QΡ	
2	*	160.9500	28.01	-15.52	12.49	30.00	-17.51	QР	
3		233.7000	29.32	-16.52	12.80	37.00	-24.20	QР	
4		289.4750	28.78	-15.13	13.65	37.00	-23.35	QР	
5		328.2750	30.10	-15.58	14.52	37.00	-22.48	QР	
6		345.2500	30.77	-15.67	15.10	37.00	-21.90	QР	

Power:

Distance:

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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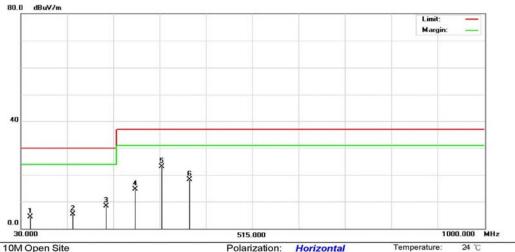
Page: 32 of 54

Humidity:

Air Pressure:

Test Mode: Config 4 Test Date: Mar. 08, 2010

Test By: Frequency Range: 30MHz-1GHz Nick



Site: 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Camera REC \_config 4 IMEI: 990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dВ	Detector	Comment
1		49.4000	28.20	-23.93	4.27	30.00	-25.73	QP	
2		139.1250	27.63	-22.37	5.26	30.00	-24.74	QР	
3		209.4500	30.92	-22.59	8.33	30.00	-21.67	QP	
4	;	270.0750	35.79	-20.99	14.80	37.00	-22.20	QР	
5	*	325.8500	42.60	-19.46	23.14	37.00	-13.86	QΡ	
6		384.0500	38.18	-19.81	18.37	37.00	-18.63	QP	

Power:

Distance: 10m

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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Humidity:

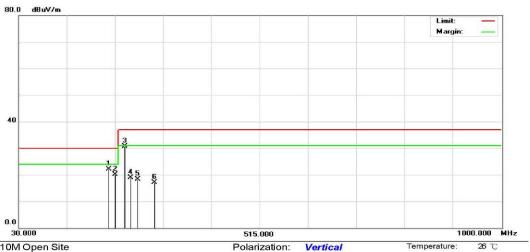
Air Pressure:

60%

hpa

Test Mode: Config 5 Test Date: Mar. 08, 2010

Test By: Frequency Range: 30MHz-1GHz Nick



Site: 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Data link\_config 5 IMEI: 990000256742030

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dΒ	Detector	Comment	
1		211.8750	39.55	-17.48	22.07	30.00	-7.93	QP		
2		223.6130	36.68	-16.66	20.02	30.00	-9.98	QP		
3	*	243.4000	46.70	-15.95	30.75	37.00	-6.25	QP		
4		255.5250	34.91	-16.10	18.81	37.00	-18.19	QP		
5		270.0750	33.88	-15.63	18.25	37.00	-18.75	QP		
6		304.0250	32.00	-14.94	17.06	37.00	-19.94	QP		

Power:

Distance: 3m

AC 120V/60Hz

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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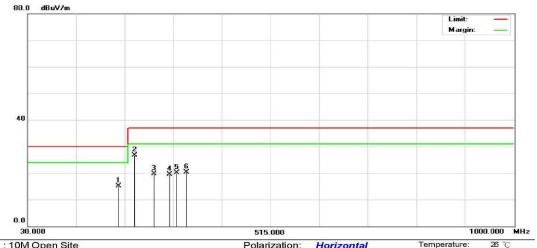
Page: 34 of 54

Humidity:

Air Pressure:

Test Mode: Config 5 Test Date: Mar. 08, 2010

Test By: Frequency Range: 30MHz-1GHz Nick



Power:

Distance: 3m

AC 120V/60Hz

Site: 10M Open Site

Limit: CISPR22/CISPR11/EN55022 Class B 10m

EUT: Mobilephone

M/N: KD51

Note: Data link\_config 5 IMEI: 990000256742030

No.	Mk	c. Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
	IVIK									
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dВ	Detector	Comment	
1		211.8750	37.50	-22.45	15.05	30.00	-14.95	QP		
2	*	243.4000	48.49	-21.86	26.63	37.00	-10.37	QP		
3		282.2000	40.33	-20.70	19.63	37.00	-17.37	QP		
4		313.7250	38.92	-19.40	19.52	37.00	-17.48	QΡ		
5		328.2750	39.67	-19.60	20.07	37.00	-16.93	QP		
6		347.6750	40.16	-19.91	20.25	37.00	-16.75	QP		

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 10GHz was 1MHz

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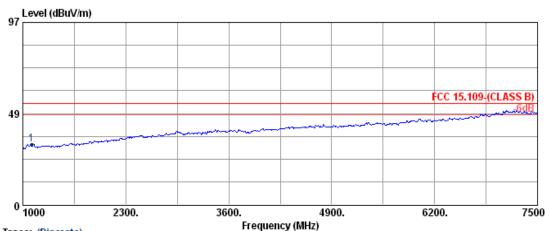


Report No.: EI/2010/20007 Issue Date: Mar. 11, 2010

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Test Mode: Config 1 Test Date: Mar. 08, 2010

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Play 1KHz \_config 1

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

1 p 1110,50 39,60 24,38 3,40 35,47 -7,69 31,91 54,00 -22,09 Peak

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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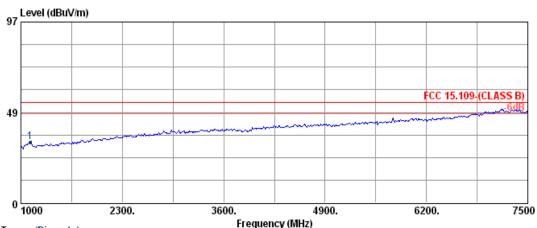


Report No.: EI/2010/20007 **Issue Date: Mar. 11, 2010** 

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Test Mode: Mar. 08, 2010 Config 1 Test Date:

Frequency Range: 1GHz - 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

: FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL Condition

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

**EUT Model** : KD51

Test Mode : Play 1KHz \_config 1

: 22/58 Temp./Humid. Operator : Nick

: IMEI: 990000256742030

Cable Preamp Loss Factor Factor Level Limit Over ReadAntenna Freq Level Factor Limit Remark dB dB/m dBuV/m dBuV/m ₫B MHz dBuV dB/m ₫B

1 p 1123,50 40,31 24,41 3,40 35,43 -7,62 32,69 54,00 -21,31 Peak

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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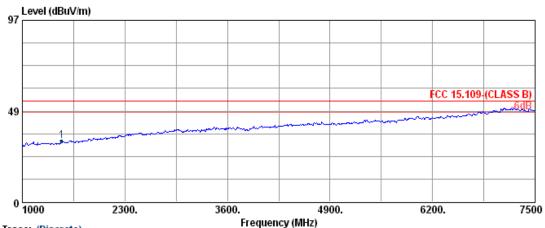


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Test Mode: Config 2 Test Date: Mar. 08, 2010

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Play 1KHz \_config 2

Temp./Humid. : 22/58 Operator : Nick

1 p 1500,50 38,56 24,90

: IMEI: 990000256742030

ReadAntenna Cable Preamp Limit Over
Freq Level Factor Loss Factor Factor Level Line Limit Remark

MHz dBuV dB/m dB dB/m dBoV/m dBoV/m dB

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

4,02 34,82 -5,90 32,66 54,00 -21,34 Peak

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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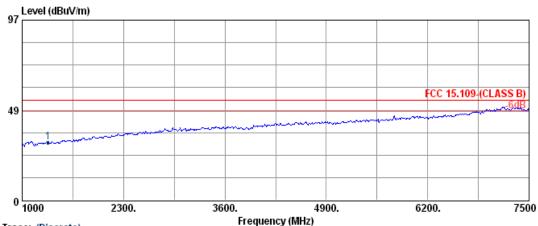


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Test Mode: Mar. 08, 2010 Config 2 Test Date:

Frequency Range: 1GHz - 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Play 1KHz \_config 2

: 22/58 Temp./Humid. Operator : Nick

: IMEI: 990000256742030

Limit ReadAntenna Cable Preamp Over Loss Factor Factor Level Line Limit Remark dB dB/m dBuV/m dBuV/m MHz dBuV dB/m ₫B

1 p 1331,50 37,98 24,70 3,75 35,11 -6,66 31,32 54,00 -22,68 Peak

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 10GHz was 1MHz

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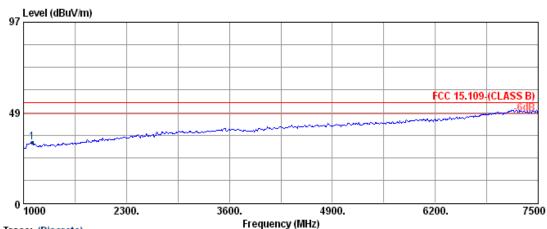


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Test Mode: Config 3 Test Date: Mar. 08, 2010

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Camera REC \_config 3

Temp./Humid. : 22/58 Operator : Nick

:IMEI:990000256742030

ReadAntenna Cable Preamp Limit Over
Freq Level Factor Loss Factor Factor Level Line Limit Remark

MHz dBuV dB/m dB dB dB/m dBuV/m dBuV/m dB

1 p 1110,50 40,17 24,38 3,40 35,47 -7,69 32,48 54,00 -21,52 Peak

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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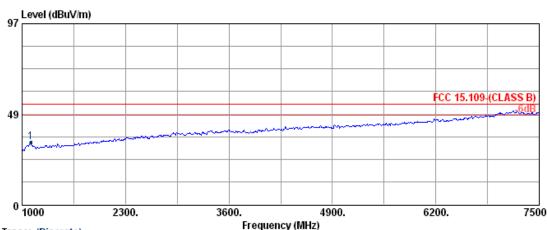


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Test Mode: Mar. 08, 2010 Config 3 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Camera REC \_config 3

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

ReadAntenna Cable Preamp Loss Factor Factor Level Limit Over Line Limit Remark Freq Level Factor dB/m dBuV/m dBuV/m MHz dBuV dB/m ďΒ ₫B

3,40 35,47 -7,69 33,48 54,00 -20,52 Peak 1 p 1110,50 41,17 24,38

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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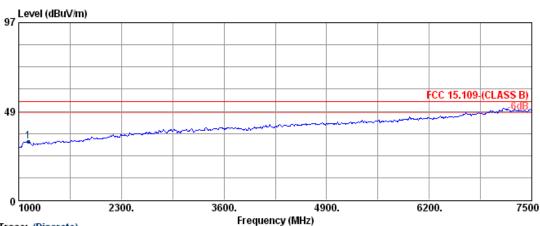


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Test Mode: Mar. 08, 2010 Config 4 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

: RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Camera REC \_config 4

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

Limit ReadAntenna Cable Preamp Level Factor Loss Factor Factor Level Over Limit Remark Freq Level Factor dB \_\_dB/m dBuV/m dBuV/m MHz dBuV dB/m ₫B

1 p 1123,50 39,84 24,41 3,40 35,43 -7,62 32,22 54,00 -21,78 Peak

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 10GHz was 1MHz

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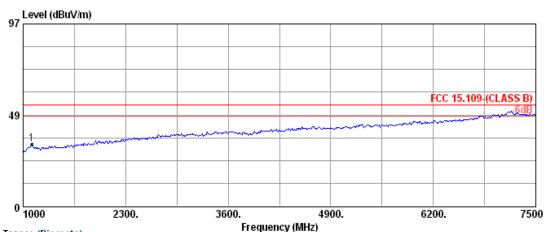


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Test Mode: Mar. 08, 2010 Config 4 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Camera REC \_config 4

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

ReadAntenna Cable Preamp Limit Over Loss Factor Factor Level Freq Level Factor Limit Remark Line ďΒ dB \_\_dB/m dBuV/m dBuV/m MHz dBuV dB/m

1 p 1110,50 40,63 24,38 3,40 35,47 -7,69 32,94 54,00 -21,06 Peak

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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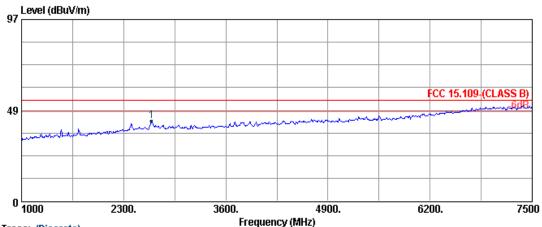


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Test Mode: Config 5 Test Date: Mar. 08, 2010

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Data link \_config 5

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

Read Cable Preamp Limit Over
Freq Level Loss Factor Factor Level Line Limit Remark

MHz dBuV dB dB dB/m dBuV/m dBuV/m dB

1 p 2657,50 52,95 5,28 43,44 -10,36 42,59 54,00 -11,41 Peak

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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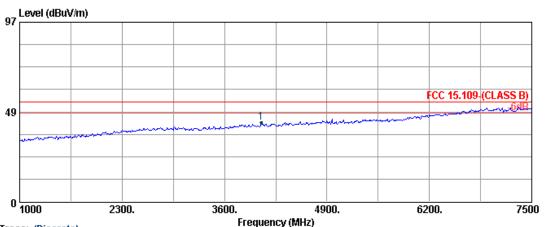


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Test Mode: Config 5 Test Date: Mar. 08, 2010

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Data link \_config 5

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

Read Cable Preamp Limit Over
Freq Level Loss Factor Factor Level Line Limit Remark

MHz dBuV dB dB dB/m dBuV/m dBuV/m dB

1 p 4068,00 51,23 6,37 44,68 -8,52 42,71 54,00 -11,29 Peak

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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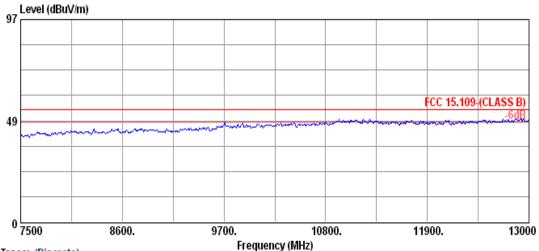


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Test Mode: Config 1 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Play 1kHz\_config 1

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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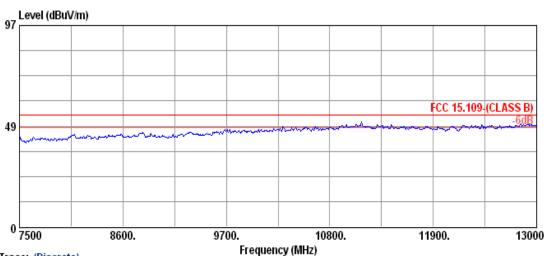


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Test Mode: Config 1 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Play 1kHz\_config 1

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

#### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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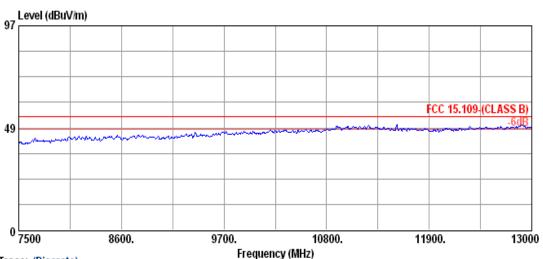


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Test Mode: Config 2 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Play 1kHz \_config 2

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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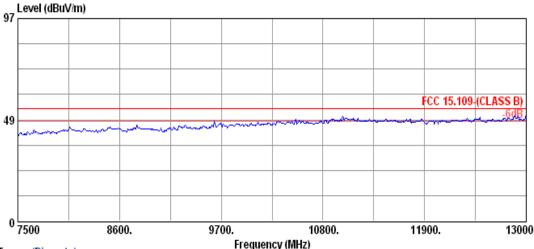


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Test Mode: Config 2 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Play 1kHz \_config 2

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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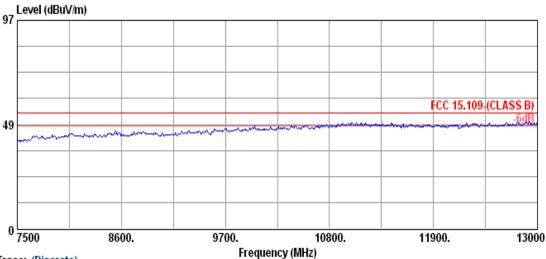


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Test Mode: Config 3 Mar. 08, 2010 Test Date:

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Camera REC \_config 3

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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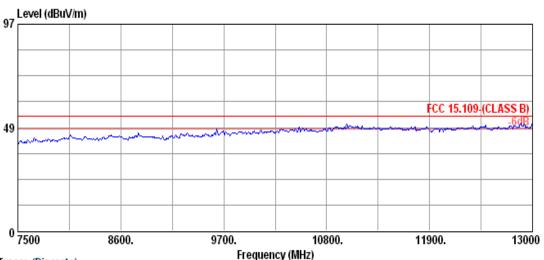


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Test Mode: Config 3 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Camera REC \_config 3

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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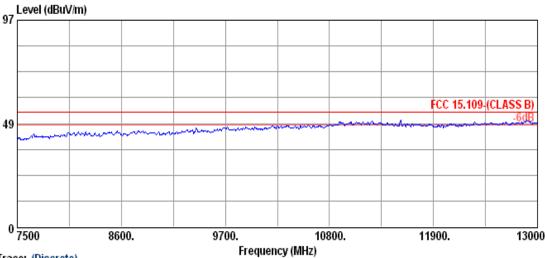


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Test Mode: Config 4 Mar. 08, 2010 Test Date:

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

: RF SITE Site

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Camera REC \_confiq 4

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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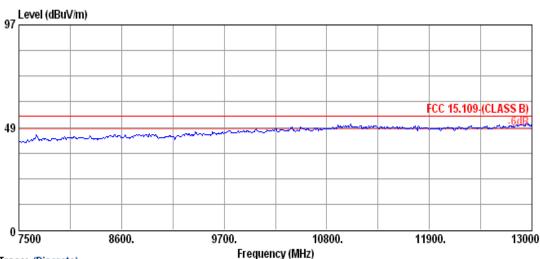


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Test Mode: Config 4 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

台灣檢驗科技股份有限公司

EUT Model : KD51

Test Mode : Camera REC \_config 4

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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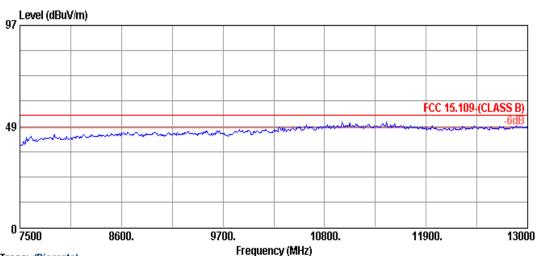


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Test Mode: Config 5 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D VERTICAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Data link \_config 5

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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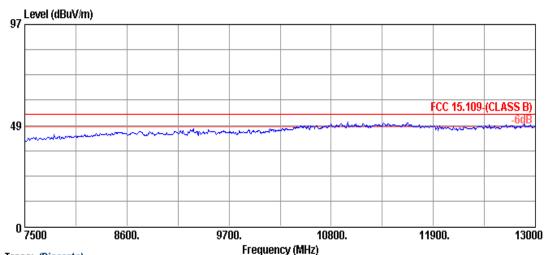


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Test Mode: Config 4 Test Date: Mar. 08, 2010

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : RF SITE

Condition : FCC 15.109-(CLASS B) 3m BBHA9120D HORIZONTAL

: RBW:100.000KHz VBW:300.000KHz

Project No. : EI-2010-20006-7

Applicant : Toshiba EUT Description : Mobile Phone

EUT Model : KD51

Test Mode : Data link \_config 5

Temp./Humid. : 22/58 Operator : Nick

: IMEI: 990000256742030

#### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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